

### CONFIGURABLE CROSSBAR SWITCH

[0034] A configurable crossbar switch is provided between the signaling I/O and the IP block in a programmable logic resource. A programmable logic  
5 resource receives input data via an I/O port. This data is decoded in an I/O buffer and sent as input to a crossbar switch that can be configured to send the data to any one of the data ports in the IP block.  
Similarly, data from the IP block can be sent via a  
10 data port to a crossbar switch that can be configured to send the data to an I/O buffer that encodes the data for output to any one of the I/O ports. The use of crossbar switch provides greater flexibility in the design of a programmable logic resource and reduces  
15 connectivity problems.